
NICHOLAS COUNTY

(Nicholas County Water Service Area Map)

- Estimated 1999 population of 7,100--87% on public water
- Estimated 2020 population of 7,400--94% on public water
- 245 miles of water lines, with plans for 77 additional miles
- Estimated funding needs for public water 2000-2005--\$3,300,000
- Estimated funding needs for public water 2006-2020--\$2,743,000

Nicholas County had an estimated population of 7,053 (2,932 households) in 1999 with a projected population of 7,358 (3,213 households) in 2020. Public water is provided to about 87 percent of the county's residents. In areas of the county not served by public water, about 30 percent of the households rely on private domestic wells and 70 percent of the households rely on other sources. About 230 customers will be added to public water service through new line extensions in 2000-2020.

Estimated Costs - Proposed Projects, 2000-2005

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	In \$1000	in \$1000	in \$1000	in \$1000	in \$1000
NICHOLAS								-
Carlisle				30	250	2,100		2,380
Nicholas Co.	22.0	94	920					920
TOTAL	22.0	94	920	30	250	2,100	0	3,300

Estimated Costs - Proposed Projects, 2006-2020

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
NICHOLAS								-
Carlisle				500				500
Nicholas Co.	32	86	1,327					1,327
Sharpsburg	12	11	478					478
Harrison Co. W/A	4	16	162					162
W. Flemington W/D	6.5	21	276					276
Total	54.5	134	2,243	500				2,743

PUBLIC WATER SYSTEMS

Nicholas County has 3 community water systems: 1 municipal, Carlisle Water Department; 2 water districts, Nicholas County Water District and Western Fleming Water District. Parts

WATER SERVICE AREAS

NICHOLAS COUNTY

Kentucky

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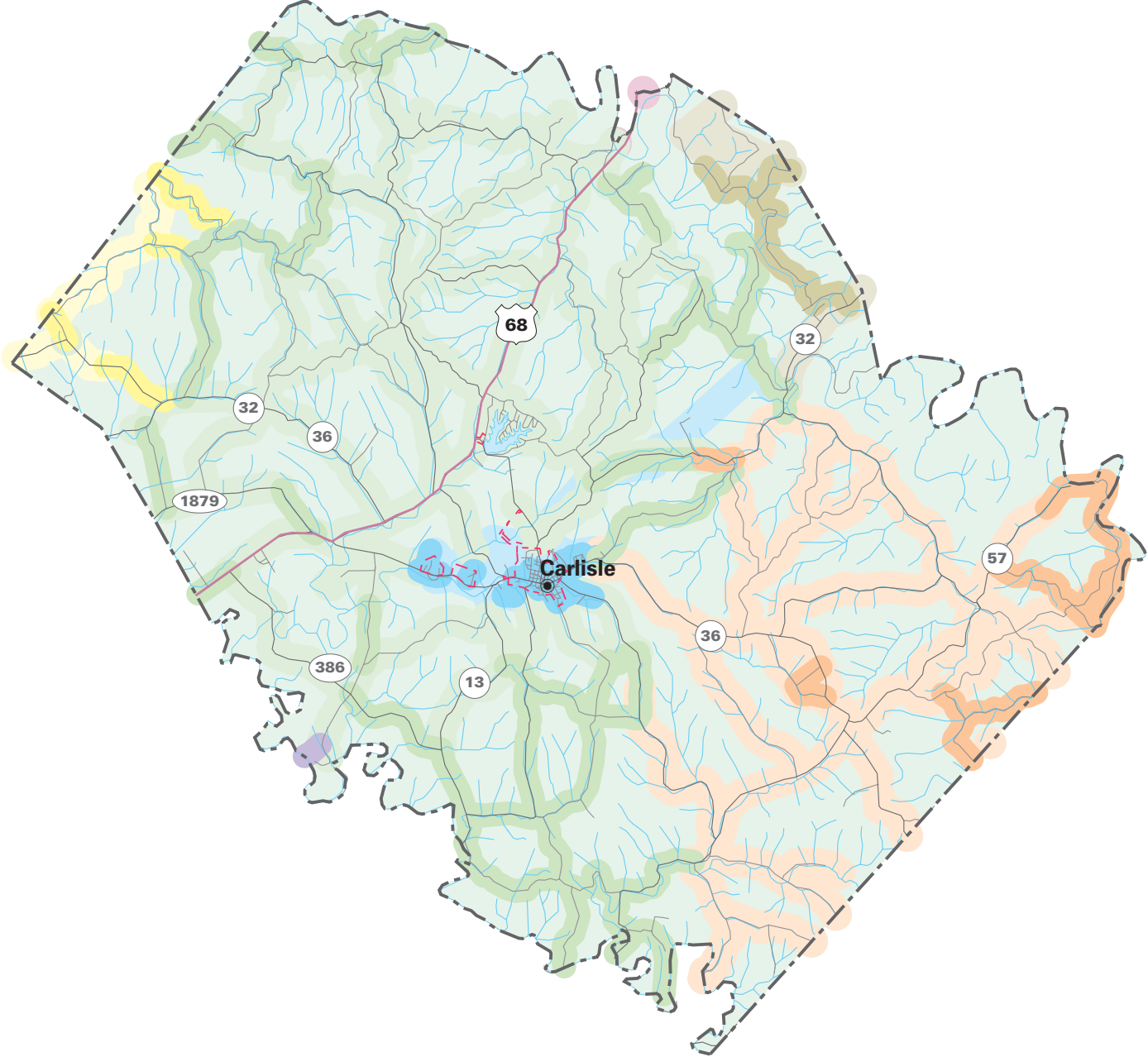
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WATER SERVICE STATUS BY OWNER		
EXISTING SERVICE AREA	PROPOSED SERVICE AREA	
		WESTERN FLEMING WATER DISTRICT
		SHARPSBURG WATER DISTRICT
		NICHOLAS COUNTY WATER DISTRICT
		JUDY WATER ASSOCIATION
		HARRISON COUNTY WATER ASSOCIATION
		CARLISLE WATER DEPARTMENT
		BUFFALO TRAIL WATER ASSOCIATION



of the county are also served by the Harrison County Water Association and the Sharpsburg Water District.

CARLISLE MUNICIPAL WATER DEPARTMENT

PWSID: 0910065
System Type: COMMUNITY
Owner Type: MUNICIPAL
Surface Source: LICKING RIVER
Purchase Source:
Well Source:
Sells Water to:
Treatment Plant Capacity (MGD): 1.30
Percent Daily Average Production: 47.00
Total Tank Storage Capacity (gallons): 500,000.00
Total Service Connections: 1,186.00
Number of Employees: 0.00
Treatment Operator Class: 2D
Distribution Operator Class: 3A
Customer Rate for 1,000 Gallons: Not available
O/M costs 1997: Not available
O/M costs per Service Connection: Not available
Net Revenue 1997: Not available
Total Water Produced 1997 (gallons): Not available
Water Sold 1997 (gallons): Not available
Unaccounted-for Water 1997 (%): Not available

NICHOLAS COUNTY WATER DISTRICT

PWSID: 0910314
System Type: COMMUNITY
Owner Type: WATER DISTRICT
Surface Source:
Purchase Source:
Well Source:
Sells Water to:
Treatment Plant Capacity (MGD): 0.00
Percent Daily Average Production: 0.00
Total Tank Storage Capacity (gallons): 139,000.00
Total Service Connections: 8,200.00
Number of Employees: 0.00
Treatment Operator Class: 2D
Distribution Operator Class:
Customer Rate for 1,000 Gallons: 7.93
O/M costs 1997: 185,660.00
O/M costs per Service Connection: 249.54
Net Revenue 1997: 14,888.00
Total Water Produced 1997 (gallons): 0.00
Water Sold 1997 (gallons): 41,951,000.00
Unaccounted-for Water 1997 (%): 14.97

WESTERN FLEMING WATER DISTRICT

PWSID: 0910675
System Type: COMMUNITY
Owner Type: WATER DISTRICT
Surface Source: LICKING RIVER
Purchase Source:
Well Source:
Sells Water to: FLEMINGSBURG UTILITY SYSTEM
Treatment Plant Capacity (MGD): 1.00
Percent Daily Average Production: 80.00
Total Tank Storage Capacity (gallons): 100,000.00
Total Service Connections: 1,180.00
Number of Employees: 4.00
Treatment Operator Class: 2D
Distribution Operator Class: 3A
Customer Rate for 1,000 Gallons: 2.97
O/M costs 1997: 235,967.00
O/M costs per Service Connection: 212.77
Net Revenue 1997: 16,503.00
Total Water Produced 1997 (gallons): 277,180,000.00
Water Sold 1997 (gallons): 225,843,000.00
Unaccounted-for Water 1997 (%): 17.08

PRIVATE DOMESTIC SYSTEMS

About 900 residents of Nicholas County rely on private domestic water supplies: 300 on wells and 600 on other sources.

In the Licking River valley and in the valley of the main trunk of Hinkston Creek most drilled wells will produce enough water for a domestic supply at depths of less than 100 feet. Wells located in many of the larger creek valleys will produce enough water for a domestic supply except during dry weather. In the upland areas of Nicholas County, which encompasses 85% of the county, most drilled wells will not produce enough water for a dependable domestic supply except along drainage lines that may produce enough water except during dry weather.

Throughout the county ground water is hard or very hard and may contain salt or hydrogen sulfide, especially at depths greater than 100 feet.
